

	Leu	Leu	Met	Gly	Ser	Tyr	Asn	Asp	Ile	Phe	Asp	Leu	Phe	Phe	Ser	Asn	
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	Cys	Arg	Ser	Leu	Phe	Lys	Asp	Lys	Lys	Leu	Val	Glu	Tyr	Leu	Lys	Glu	
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10	agt	tct	ttt	gat	gca	gtg	ttt	ctc	gat	cct	ttt	gat	aac	tgt	ggc	tta	483
	Ser	Ser	Phe	Asp	Ala	Val	Phe	Leu	Asp	Pro	Phe	Asp	Asn	Cys	Gly	Leu	
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	Ile	Val	Ala	Lys	Tyr	Phe	Ser	Leu	Pro	Ser	Val	Val	Phe	Ala	Arg	Gly	
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	Ile	Leu	Cys	His	Tyr	Leu	Glu	Glu	Gly	Ala	Gln	Cys	Pro	Ala	Pro	Leu	
				175					180					185			
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	Ser	Tyr	Val	Pro	Arg	Ile	Leu	Leu	Gly	Phe	Ser	Asp	Ala	Met	Thr	Phe	
			190					195					200				
25	aag	gag	aga	gta	cgg	aac	cac	atc	atg	cac	ttg	gag	gaa	cat	tta	tta	675
	Lys	Glu	Arg	Val	Arg	Asn	His	Ile	Met	His	Leu	Glu	Glu	His	Leu	Leu	
		205				210						215					
30	tgc	cac	cgt	ttt	ttc	aaa	aat	gcc	cta	gaa	ata	gcc	tct	gaa	att	ctc	723
	Cys	His	Arg	Phe	Phe	Lys	Asn	Ala	Leu	Glu	Ile	Ala	Ser	Glu	Ile	Leu	
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	Gln	Thr	Pro	Val	Thr	Glu	Tyr	Asp	Leu	Tyr	Ser	His	Thr	Ser	Ile	Trp	
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	Leu	Leu	Arg	Thr	Asp	Phe	Val	Leu	Asp	Tyr	Pro	Lys	Pro	Val	Met	Pro	
				255					260					265			
40	aac	atg	atc	ttc	att	ggg	ggg	atc	aac	tgc	cat	cag	gga	aag	ccg	ttg	867
	Asn	Met	Ile	Phe	Ile	Gly	Gly	Ile	Asn	Cys	His	Gln	Gly	Lys	Pro	Leu	
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	Pro	Met	Glu	Phe	Glu	Ala	Tyr	Ile	Asn	Ala	Ser	Gly	Glu	His	Gly	Ile	
		285					290					295					
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	Val	Val	Phe	Ser	Leu	Gly	Ser	Met	Val	Ser	Glu	Ile	Pro	Glu	Lys	Lys	
	300					305					310					315	
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	Ala	Met	Ala	Ile	Ala	Asp	Ala	Leu	Gly	Lys	Ile	Pro	Gln	Thr	Val	Leu	
					320					325					330		
	tgg	cgg	tac	act	gga	acc	cga	cca	tcg	aat	ctt	gcg	aac	aac	acg	ata	1059
	Trp	Arg	Tyr	Thr	Gly	Thr	Arg	Pro	Ser	Asn	Leu	Ala	Asn	Asn	Thr	Ile	

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5	ctt gtt aag tgg cta ccc caa aac gat ctg ctt ggt cac ccg atg acc Leu Val Lys Trp Leu Pro Gln Asn Asp Leu Leu Gly His Pro Met Thr 350 355 360	1107		
10	cgt gcc ttt atc acc cat gct ggt tcc cat ggt gtt tat gaa agc ata Arg Ala Phe Ile Thr His Ala Gly Ser His Gly Val Tyr Glu Ser Ile 365 370 375	1155		
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15	gac aat gca aag cgc atg gag act aag gga gct gga gtg acc ctg aat Asp Asn Ala Lys Arg Met Glu Thr Lys Gly Ala Gly Val Thr Leu Asn 400 405 410	1251		
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25	atc aat gac aaa agt tac aag gag aac atc atg cgc ctc tcc agc ctt Ile Asn Asp Lys Ser Tyr Lys Glu Asn Ile Met Arg Leu Ser Ser Leu 430 435 440	1347		
30	cac aag gac cgc ccg gtg gag ccg ctg gac ctg gcc gtg ttc tgg gtg His Lys Asp Arg Pro Val Glu Pro Leu Asp Leu Ala Val Phe Trp Val 445 450 455	1395		
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 Gly Gly Ile Asn Cys His Gln Gly Lys Pro Leu Pro Met Glu Phe Glu
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 Asp Ala Leu Gly Lys Ile Pro Gln Thr Val Leu Trp Arg Tyr Thr Gly
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 Pro Gln Asn Asp Leu Leu Gly His Pro Met Thr Arg Ala Phe Ile Thr
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 20 Ser Glu Asp Leu Glu Asn Ala Leu Lys Ala Val Ile Asn Asp Lys Ser
 420 425 430
 Tyr Lys Glu Asn Ile Met Arg Leu Ser Ser Leu His Lys Asp Arg Pro
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 25 Val Glu Pro Leu Asp Leu Ala Val Phe Trp Val Glu Phe Val Met Arg
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 His Lys Gly Ala Pro His Leu Arg Pro Ala Ala His Asp Leu Thr Trp
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 Tyr Gln Tyr His Ser Leu Asp Val Ile Gly Phe Leu Leu Ala Val Val
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	60	65	70	75
15	act tat tca act tca tat acc ctg gag gat ctg gac cgg gag ttc aag Thr Tyr Ser Thr Ser Tyr Thr Leu Glu Asp Leu Asp Arg Glu Phe Lys	291		
	80	85	90	
20	gct ttt gcc cat gct caa tgg aaa gca caa gta cga agt ata tat tct Ala Phe Ala His Ala Gln Trp Lys Ala Gln Val Arg Ser Ile Tyr Ser	339		
	95	100	105	
25	cta tta atg ggt tca tac aat gac att ttt gac tta ttt ttt tca aat Leu Leu Met Gly Ser Tyr Asn Asp Ile Phe Asp Leu Phe Phe Ser Asn	387		
	110	115	120	
30	tgc agg agt ttg ttt aaa gac aaa aaa tta gta gaa tac tta aag gag Cys Arg Ser Leu Phe Lys Asp Lys Lys Leu Val Glu Tyr Leu Lys Glu	435		
	125	130	135	
35	agt tct ttt gat gca gtg ttt ctc gat cct ttt gat aac tgt ggc tta Ser Ser Phe Asp Ala Val Phe Leu Asp Pro Phe Asp Asn Cys Gly Leu	483		
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	175	180	185	
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	190	195	200	
55	aag gag aga gta cgg aac cac atc atg cac ttg gag gaa cat tta tta Lys Glu Arg Val Arg Asn His Ile Met His Leu Glu Glu His Leu Leu	675		
	205	210	215	
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	220	225	230	235
65	caa aca cct gtt acg gag tat gat ctc tac agc cac aca tca att tgg Gln Thr Pro Val Thr Glu Tyr Asp Leu Tyr Ser His Thr Ser Ile Trp	771		
	240	245	250	
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	270 275 280	
5	cct atg gaa ttt gaa gcc tac att aat gct tct gga gaa cat gga att	915
	Pro Met Glu Phe Glu Ala Tyr Ile Asn Ala Ser Gly Glu His Gly Ile	
	285 290 295	
10	gtg gtt ttc tct ttg gga tca atg gtc tca gaa att cca gag aag aaa	963
	Val Val Phe Ser Leu Gly Ser Met Val Ser Glu Ile Pro Glu Lys Lys	
	300 305 310 315	
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	Arg Ala Phe Ile Thr His Ala Gly Ser His Gly Val Tyr Glu Ser Ile	
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	Asp Asn Ala Lys Arg Met Glu Thr Lys Gly Ala Gly Val Thr Leu Asn	
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	Glu Phe Val Met Arg His Lys Gly Ala Pro His Leu Arg Pro Ala Ala	
	460 465 470 475	
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	His Asp Leu Thr Trp Tyr Gln Tyr His Ser Leu Asp Val Ile Gly Phe	
	480 485 490	

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10 gcc cac aaa tcc aag acc cat tga gaagtgggtg ggaaataagg taaaattttg 1641
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 35 40 45

50 Ile Leu Arg Gly His Glu Val Val Val Val Met Pro Glu Val Ser Trp
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 Tyr Thr Leu Glu Asp Leu Asp Arg Glu Phe Lys Ala Phe Ala His Ala
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	Ile	Leu	Leu	Gly	Phe	Ser	Asp	Ala	Met	Thr	Phe	Lys	Glu	Arg	Val	Arg
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	Glu	Tyr	Asp	Leu	Tyr	Ser	His	Thr	Ser	Ile	Trp	Leu	Leu	Arg	Thr	Asp
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	Ala	Tyr	Ile	Asn	Ala	Ser	Gly	Glu	His	Gly	Ile	Val	Val	Phe	Ser	Leu
		290					295					300				
25	Gly	Ser	Met	Val	Ser	Glu	Ile	Pro	Glu	Lys	Lys	Ala	Met	Ala	Ile	Ala
		305				310					315					320
	Asp	Ala	Leu	Gly	Lys	Ile	Pro	Gln	Thr	Val	Leu	Trp	Arg	Tyr	Thr	Gly
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30	Thr	Arg	Pro	Ser	Asn	Leu	Ala	Asn	Asn	Thr	Ile	Leu	Val	Lys	Trp	Leu
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		385				390					395					400
	Met	Glu	Thr	Lys	Gly	Ala	Gly	Val	Thr	Leu	Asn	Val	Leu	Glu	Met	Thr
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40	Ser	Glu	Asp	Leu	Glu	Asn	Ala	Leu	Lys	Ala	Val	Ile	Asn	Asp	Lys	Ser
				420					425					430		
	Tyr	Lys	Glu	Asn	Ile	Met	Arg	Leu	Ser	Ser	Leu	His	Lys	Asp	Arg	Pro
		435						440					445			
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		450					455					460				
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		465				470					475					480
	Tyr	Gln	Tyr	His	Ser	Leu	Asp	Val	Ile	Gly	Phe	Leu	Leu	Ala	Val	Val
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		530														